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PPLICATION NO	. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/660,466		09/12/2000	Dinesh Mody	FMT1P029	6579
758	7590	03/24/2005		EXAMINER	
FENWIC			ROANE, AARON F		
SILICON VALLEY CENTER 801 CALIFORNIA STREET				ART UNIT	PAPER NUMBER
		CA 94041	3739		

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Comment		09/660,466	MODY ET AL.	60				
	Office Action Summary	Examiner	Art Unit					
		Aaron Roane	3739					
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet w	ith the correspondence addre	PSS				
THE - Exte after - If the - If NC - Failt Any	MAILING DATE OF THIS COMMUNICAT missions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days of period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a cition. s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON a statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this comm BANDONED (35 U.S.C. § 133).	nunication.				
Status								
1)⊠	Responsive to communication(s) filed on	10 January 2005.						
2a)[]								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
	closed in accordance with the practice ur	ce under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims							
5)⊠ 6)⊠	Claim(s) 36-39,57,78,89,90,100,101 and 105 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 37-39 is/are allowed. Claim(s) 36,57,78,89,90,100,101 and 105 is/are rejected. Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	and/or election requirement.						
Applicat	ion Papers			,				
•	The specification is objected to by the Examiner.							
10)	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[The oath or declaration is objected to by t	•						
Priority (under 35 U.S.C. § 119	•						
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Esee the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	Application No received in this National Sta	age				
Attachmer	nt(s)							
2) 🔲 Notic 3) 🔯 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/92 er No(s)/Mail Date 1/24/05,12/21/04	48) Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-15 	5 2) .				

DETAILED ACTION

Claim Rejections - 35 USC § 102

(e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 78, 82-84, 89, 90 and 105 are rejected under 35 U.S.C. 102(e) as being anticipated by Gough et al. (USPN 5,863,290).

Regarding claims 78, 86, 89 and 90, Gough et al. disclose a microwave ablation system (see third the paragraph beginning after the "summary of the invention" and the later discussion of the connection to the microwave energy source 20) as seen in figures 3-8 comprising an ablation device (16) that includes an energy delivery portion and an introducer (14) having a sharpened distal end and that is sized and dimensioned for slidable receipt of the ablation device there through. As seen for example in figure 3 (and explained in column 6, lines 30-60), the energy delivery device is made of a nitinol

material and is selectively deployed to attain multiple shapes and sizes ranging from only "a few degrees from the longitudinal axis" to an obtuse angle embodiment described as a "j-hook" type. Additionally, Gough et al. disclose a device that is fully capable of performing the intended use as claimed, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Since no structural limitation is recited the prior art meets the claimed invention.

Regarding claims 82-84, Gough et al. further disclose an antenna (16) device that is preshaped and extends at an angle within the range of 0° and 90° or 45° and 135° with respect to the longitudinal axis of the shaft, see col. 4-6 and figures 1-4. Furthermore, Gough et al. further disclose a dielectric layer (18) encapsulating the antenna (16), see col. 5, lines 23-45 and figures 1-8.

Regarding claim 105, Gough et al. disclose the claimed invention, see col. 1-14 and figures 1-10.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 36, 51, 57, 100 and 101 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gough et al. (USPN 5,863,290) in view of Kasevich (USPN 6,233,490 B1).

Regarding claims 36, 57 and 100, Gough et al. disclose a microwave treatment assembly comprising an elongate microwave antenna device (16), an introducer or elongate probe (14) that carries a portion of the antenna device within a lumen having a sharpened distal end (14') and allowing for the slidable displacement of the antenna device beyond the distal end of the probe, see col. 4-10 and figures 1, 3, 4, 6C, 9 and 10. Gough et al. also disclose a microwave power source, see col. 5, lines 46-57. Gough et al. disclose a substantially straight antenna (see figures 1-8). Gough et al. fail to explicitly recite an antenna device comprising a coaxial cable having an inner conductor, an outer conductor and a dielectric medium separating the inner and outer conductors and the antenna device electrically connected to the distal end of the inner conductor. It is well known that microwave antennas can be connected to the distal end of a coaxial cable having and inner conductor, an outer conductor and a dielectric medium in order to serve as a waveguide and radiate energy in the microwave frequency range in order to ablate tissue. For example it is well known that waveguides for TEM mode radiation must be in a coaxial form. Kasevich discloses a microwave antenna ablation system comprising a shaft (18) and microwave antennas (22, 24 and 26) coupled to the distal end of a coaxial cables (28, 30 and 32) in order to provide hyperthermal therapy, see col. 4-14 and figures 1-4. Therefore at the time of the invention it would have been obvious to one of ordinary skill in the art to modify the invention of Gough et al., as is well known in the art and shown by Kasevich, to provide an alternate means of microwave energy propagation and radiation in the form of a microwave antennas connected to the distal end of a coaxial cable having an inner conductor, an outer conductor and a dielectric medium in order to serve as a waveguide and radiate energy in the microwave frequency range in order to ablate tissue.

Regarding claim 101, Gough et al. further disclose an antenna (16) device that is preshaped and extends at an angle within the range of 0° and 90° or 45° and 135° with respect to the longitudinal axis of the shaft, see col. 4-6 and figures 1-4. Furthermore, Gough et al. further disclose a dielectric layer (18) encapsulating the antenna (16), see col. 5, lines 23-45 and figures 1-8.

Claim 51 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gough et al. (USPN 5,863,290) in view of Kasevich (USPN 6,233,490 B1) as applied to claim 36 above, and further in view of Guzaik et al. (USPN 6,162,216).

Regarding claim 51, Gough et al. in view of Kasevich disclose the claimed invention except explicitly reciting that the shaft has a diameter of 3mm or less. It is well known in the art to provide an electrosurgical device that has a shaft (i.e. a catheter-type instrument) with an appropriately sized diameter in order to facilitate treatment of the biological area. Guzaik et al. disclose an electrosurgical ablation device having a shaft

(20) having a diameter well within the recited range ("approximately 0.7 to 2.7 mm," see col. 4, lines 1-14) in order to facilitate the placement of the device, see col. 7-8.

Therefore at the time of the invention it would have been obvious to one of ordinary skill in the art to modify the invention of Gough et al. in view of Kasevich, as is well known in the art and shown by Guzaik et al. to size the diameter of the shaft between "approximately 0.7 to 2.7 mm" in order to facilitate the placement of the device.

Response to Amendment

The examiner acknowledges the amendments to the claims and has applied prior art accordingly.

Response to Arguments

Applicant's arguments filed 1/10/2005 have been fully considered but they are not persuasive.

The examiner will address each argument in turn.

On page 15, Applicant recites various portions of claim 78. For the purposes of brevity, the examiner incorporates by reference, page 15 of the arguments filed on 1/10/2005 in its entirety. The amendments to claim 78 are directed to intended use and do not structurally distinguish the claimed invention over the prior art. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the

prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. The Gough et al. reference is perfectly capable of performing the recited intended use. The examiner points out that the claims are directed to an apparatus and not a method claim, it is partly for this reason that the recited intended does not distinguish the claimed invention over the prior art because the prior art is fully capable able (in some manner) of performing the intended use as claimed.

On page 3, Applicant further recites deficiencies of the Gough et al. reference. The examiner again, completely disagrees. It should be obvious from looking at figures 1-8 of Gough et al. that the device is capable of being placed into a heart chamber, deploying the secondary antennae such that they come into contact (conform) with the wall of the heart. Applicant further asserts that the device disclosed by Gough et al. is deficient in that it does not concentrate directional electromagnetic field (energy) toward targeted tissue on an inner heart wall. First of all, again the recitation of an inner heart wall is intended use. Secondly, the directional electromagnetic field radiating the Gough et al. device would certainly irradiate the targeted tissue on an inner heart wall it the device were placed into a heart chamber.

On page 4, Applicant again recites large portions of claims 36, 57, 100 and 101. These portions contain the amendments that are again directed to intended use and DO NOT distinguish the claimed invention over the prior art.

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Regarding the present claims along with their amendments, it would be poor examination

practice for the examiner to remove or change the rejections. This is due to the fact that the

amendments are directed to intended use and DO NOT DISTINGUISH the claimed invention

over the prior art structurally or in functional capability. The prior art meets the structural

limitations and is fully capable of performing the intended use.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aaron Roane whose telephone number is (571) 272-4771. The

examiner can normally be reached on Monday-Thursday 7AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Linda Dvorak can be reached on (571) 272-4764. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 19, 2005

Koyd Gibson